



SAFER. SMARTER. GREENER.



Smart Lighting Project Public Meeting



# Project Scope

## LED Conversion

- Convert all 75,000 lights to more reliable and energy-saving LED

## Remote Monitoring and Control System

- Faster repair and customization by location

## Maintenance

- Performance-based requirements and risk transfer

## Smart City Technology

- Expanded public Wi-Fi which also helps enable future smart city technologies



## Lighting Benefits

### Public & Traffic Safety

- More consistent and reliable light
- Remote control system for incident response

### Environmental

- Energy savings = 30 tons of greenhouse gas per year (33 million pounds of coal not burned)
- Shielding, dimming and other adjustments to reduce light pollution

### Economic

- 50% to 75% reduction in energy costs (\$4 to \$6 million annual savings)
- Lights last 3-4x longer and need fewer repairs

### Neighborhood

- Remote monitoring and control system for comprehensive lighting design attuned to needs of each neighborhood
- Faster repair and customization by location



# General Smart City Concepts

## Education

- Closing the Digital Divide

## Environmental

- Sensors that can measure air quality and water leakage

## Traffic Efficiency

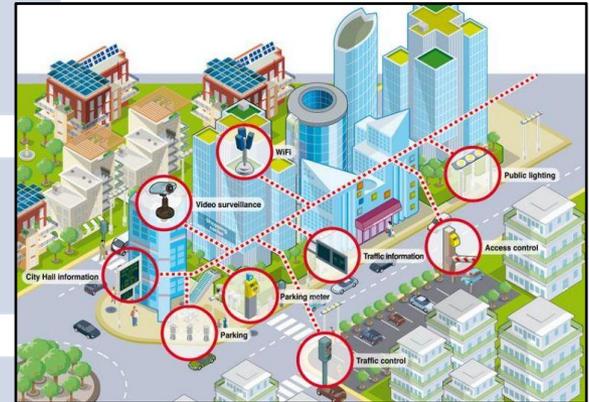
- Traffic light timing and management
- Smart Parking

## Government Services

- Smart Trash Cans
- Real time fleet management

## Economic Development

- Expanded public Wi-Fi for businesses and visitors

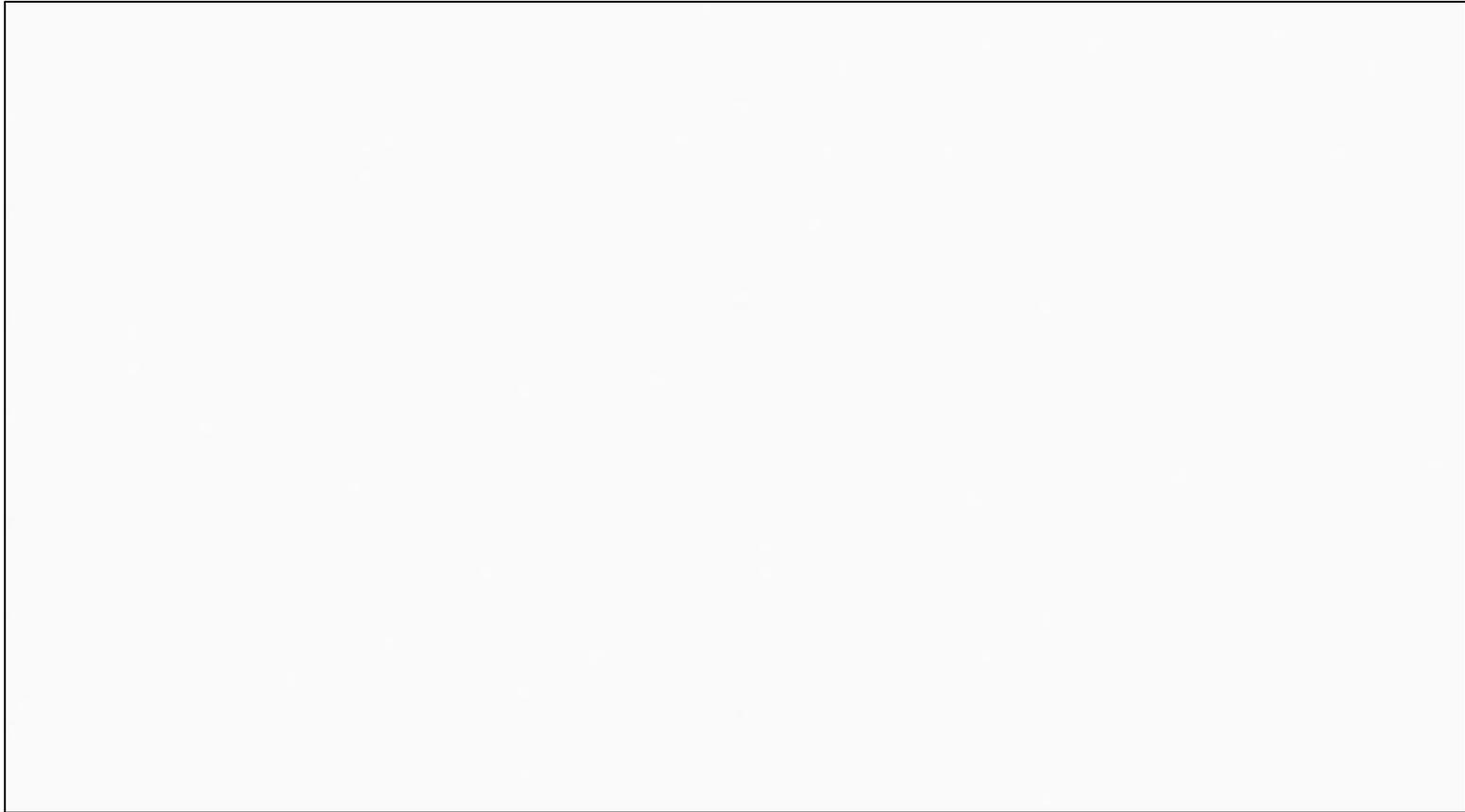


*Concepts above are general in nature and either already exist, may be enabled through this project, or future potential possibilities*





# Smart City Benefits



## P3 Benefits

### Leverage Private Financing

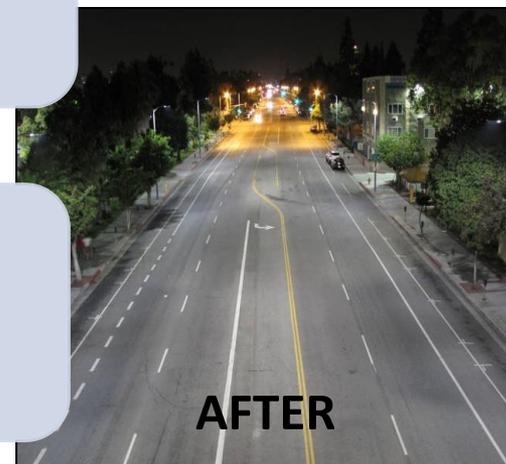
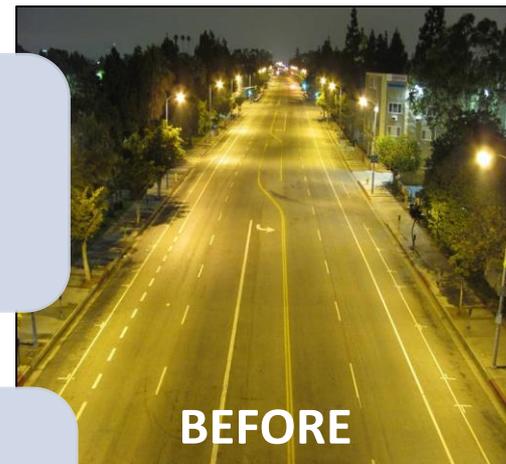
- 2-year conversion process, compared to 8-12 under current funding plan

### Risk Transfer

- If lights don't work, we don't pay

### Performance-Based

- Strict requirements (99% availability, repairs in 24 hours or less)



# What are public-private partnerships (P3s)?

## Definition:

- Long-term, performance-based contract
- Risk transferred to party best able to manage
- Contractor Designs, Builds, Finances, and Maintains public facility (DBFM)



## Benefits of P3s:

- Incentivizes Innovation
- Life-Cycle Management
- Transfers Risk
- Performance/Outcome-Based
- Debt Capacity



## Examples:

- Virginia 495 Beltway Express Lanes
- Long Beach Courthouse
- Maryland Purple Line
- LaGuardia Airport

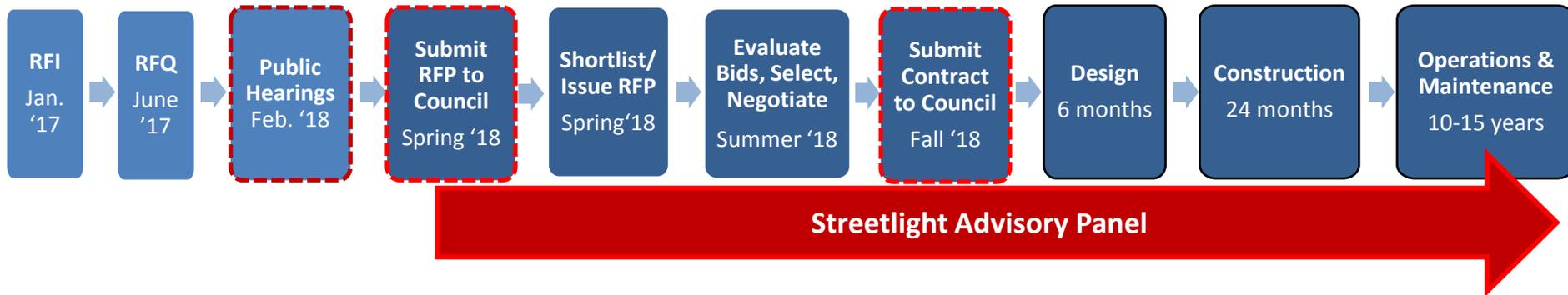


## What a P3 is NOT:

- Not – Free money
- Not – Privatization or Outsourcing
- Not – Philanthropy



# Procurement Process and Community Input



## Streetlight Advisory Panel

- **Composition:** 20 members, including at least 8 community representatives and those with expertise in lighting, public health, environmental, design, historic preservation, public and traffic safety, economic development and smart city matters.
- **Duration:** Spring '18 through design and construction and after 1 year of operations.
- **Procedures:** The panel will meet regularly and be briefed on key issues of the project by the relevant District agencies, project concessionaire, and outside experts. The panel's recommendations and feedback will be incorporated into the project accordingly.





# Let us know what you think!

*Fill out a comment card before your leave, or...*

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